

09/295,580



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/295,580	04/22/99	ARAKAWA	T 053921

PM51/0622
SUGHRUE MION ZINN MACPEAK & SEAS PLLC
2100 PENNSYLVANIA AVENUE NW
WASHINGTON DC 20037

EXAMINER
NGUYEN, T

ART UNIT	PAPER NUMBER
3661	

DATE MAILED: 06/22/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Tan Nguyen
**TAN NGUYEN
PRIMARY EXAMINER**

Office Action Summary

Application No.
09/295,580

Applicant(s)

ARAKAWA ET AL.

Examiner
TAN Q. NGUYEN

Group Art Unit
3661



☒ Responsive to communication(s) filed on 4/22/99

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire THREE month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 3-6 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 3-6 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.

☒ received in Application No. (Series Code/Serial Number) 08/016,292

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 4

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

DETAILED ACTION

Notice to Applicant(s)

1. This is a continuation of application Serial No. 08/734,778, filed on October 22, 1996, which is a continuation of application No. 08/447,882, filed on May 23 1995, now U.S. Patent No. 5,617,319, which is a continuation of 08/016,292 filed February 11, 1993 (abandoned).
2. This office action is responsive to the preliminary amendment filed on April 22, 1999. As per request, claims 1 and 2 has been canceled. Claims 3-6 have been added. Thus, claims 3-6 are pending.
3. The prior art submitted on April 22, 1999 has been considered.

Drawings

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "an input device for inputting location information for a point of interest, ... by a user of the map display system" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Kirson (5,220,507), Fukushima et al. (5,270,936) in view of Kakihara et al. (5,293,163) or Nakhla (5,526,265).

a. With respect to claim 3, Kirson discloses the invention as claimed (see at least the abstract) which includes a means for extracting map data, location name and coordinate data corresponding thereto of a location (see figure 5, item 73), a position detector for detecting a vehicle position (see figure 1, item 14), a display (see figure 1, item 18), and a map display controller for displaying a map on the display based on the map data and superimpose the vehicle position on the map displayed (see figure 1, item 11, and figure 5). Kirson et al. also disclose a location name display control device for displaying a destination location name on the map display based on the destination location data (see at least figures 2, 4 and 5). Kirson also discloses a calculating device for calculating the distances from the vehicle position to a destination, and a location name display device for displaying location name and its distance (see figures 4 and 5).

Kirson do not explicitly disclose that the calculated distance is straight line distance. However, such calculated distance is too old and well known at the time the invention was made (see Fukushima et al. in at least figures 1, 3 and columns 3 and 4 for example). It would have been obvious to incorporate the teaching of Fukushima et al. into the system of Kirson in order to simplify the calculation and time consuming about the calculated distance, there by improving the navigation system.

Kirson do not explicitly disclose that the plurality of distances are calculated from the vehicle to a plurality of locations, and such locations are displayed in ascending order. However, Kakiyama et al. suggest a navigation apparatus for vehicles which includes a display means for displaying location names of a plurality of locations based on the location name data in an ordered determined according to their distance values (see at least figures 5A, 6, and the related text). In addition, Nakhlia suggests the same feature as shown in at least figure 4, screen 56 and the related text). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Kakiyama or Nakhlia into the system of Kirson, in the case when a plurality of destinations are desired (e.g. all the destination as in figures 2 are selected), to calculate the distance of each of the desired destinations and to display all the location names in an ordered according to their distances, thereby allowing the driver to see all the desired destinations together with their distances, and help the driver to make a quick decision of selecting a desired destination.

Kakiyama et al. do suggest that the location names are displayed in an order but not ascending order. However, as mention above, Kirson does suggest the displaying of the plurality routes in an ascending order and further includes a selecting device for selecting a desired route from among the plurality of displayed routes (see at least figure 4 and the related text). It would have been further motivated one of ordinary

skill in the art at the time the invention was made to combine the teachings of Kirson and Kakiyara et al. or Nakhla in order to produce the system with the enhanced capability of, in case of having plurality of location names as in Kakiyara et al. or Nakhla, displaying the plurality of location names in an ascending order, thereby allowing the user to easily selecting the desired one with the minimum time.

b. With respect to claim 4, Nakhla discloses such feature as shown in at least figure 4 and the related text.

c. With respect to claims 5 and 6, the limitations of these claims have been noted in the rejections above. They are therefore considered rejected as set forth above. It is noted that Kirson does suggest a key for entering the point of interest (see at least figure 1. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the calculated distances between the point of interest to the destination point, in which the point of interest is difference than the current position in order to allow the user to perform more information as desired.

8. All claims are rejected.

Remarks

9. Applicant's arguments filed on April 22, 1999 have been fully considered and

Serial No.: 09/295,580
Art Unit: 3661

7

they partially deemed to be persuasive. However, upon the new added claims and the updated search, the new ground of rejections have been set forth as above.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Tan Nguyen, whose telephone number is (703) 305-9755. The examiner can normally be reached on Monday-Thursday from 7:30 AM-5:00 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Cuchlinski, can be reached on (703) 308-3873.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

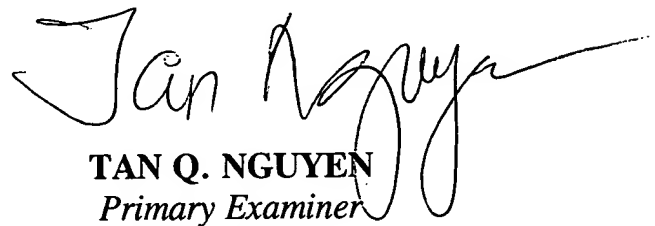
or faxed to:

(703) 305-7687, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451 Crystal Drive, Arlington, VA., Seventh Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

/tqn
June 17, 1999


TAN Q. NGUYEN
Primary Examiner
Art Unit 3661